

PATENT ABSTRACTS OF JAPAN

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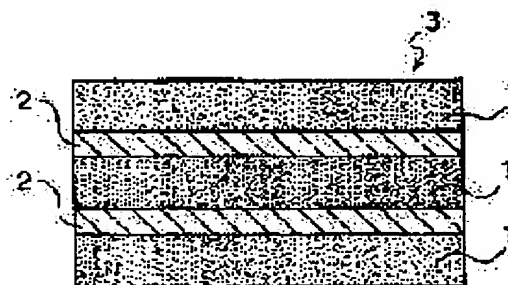
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(54) RADIATION DETECTING STRUCTURAL BODY, AND RADIATION DETECTOR AND RADIATION INSPECTION DEVICE USING SAME

(57) Abstract:

PROBLEM TO BE SOLVED: To effectively utilize luminescence as the whole scintillator by guiding effectively and easily light emitted in an inside of the scintillator into photodetector, in the case of constituting the scintillator using phosphor particles.

SOLUTION: In this radiation detecting structural body 3, a photoguide layer 2 comprising a material for transmitting light emitted from phosphor powder is laminated on a phosphor layer 1 comprising a powder solidified layer of the phosphor powder for absorbing a radiation to emit light. The required numbers of the phosphor layers 1 and the photoguide layers 2 are laminated to constitute the radiation detecting structural body 3. The structural body 3 is used for a radiation detector, for example, as a scintillator. The radiation detector has the scintillator comprising the structural body 3, and a photoelectric conversion element such as a photodiode for receiving the light from the scintillator to convert and output of the light into an electric output.



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